

[0175] Next, the display light control means **23** converts the character data stored in the character storage means **42** to pixel data, which is changed to bit data for the displaying by adding the position data. And the data is sent to the display driver **122** comprising the electronic paper **101**.

[0176] Besides, the pixel data consists of color data and density data corresponding to each pixel composing the display unit **121**. The position data is expressed by the address of each pixel composing the display unit **121**, for example, by the x coordinate (L1: a row wiring) and the y coordinate (L2: a column wiring).

[0177] At receiving the display-bit-data, the display driver **122** recognizes the pixel information of the display-bit-data and the position of the pixel by decoding the pixel data and the position data from the display-bit-data. Subsequently the display driver **122** outputs the voltage corresponding to the decoded pixel data to respective raw wiring **L2** and the column wiring **L1** corresponding to the decoded pixel data, and displays the character data on the specific position of the display unit **121**.

[0178] Likewise, the display light control means **23** converts the image data stored in the image storage means **43** to the pixel data and adding the position data to said data. By sending the data to the display driver **122** comprising the electronic paper **101**, the image data is displayed as well as the character data.

[0179] If the display driver part **12** of the electronic paper **101** is provided with the character storage means **42** and the image storage means **43** as described above, even when the electronic paper is detached from the cover **102**, it is possible to manage the character data and the image data on the electronic paper **101** independently. However, the character storage means **42** and the image storage means **43** is not always necessary to be provided on the electronic paper **101**, but may be provided on the cover **102**. In addition, the inputting (editing) to the character storage **42** and the image storage **43** should be reflected on the memory card **41**, thereby the object display-data could be edited.

[0180] In the next place, the following explains about the inputting (editing) of the character data and the image data on the electronic paper.

[0181] In order to edit the content displayed on the electronic paper **101**, a transmissive sheet **44** can be used as shown in **FIG. 30**. The transmissive sheet **44** is the coordinate detecting means adopting the electromagnetic induction type or the electrostatic coupling type used by a tablet, a digitizer, or a touch panel.

[0182] That is to say, the electronic paper **101** shown in **FIG. 30** is provided with the transmissive sheet **44** including the digitizer function (that is to say, the transmissive sheet **44** offers a function capable of detecting the position touched by a writing material) on a surface of the display unit **121**. Thereby, when the user illustrates his desired characters or pictures on the transmissive sheet **44** by the writing material (such as a pen like a sharp pointed thing), the transmissive sheet **44** detects the contact point of the writing material and the transmissive sheet **44**, and the position is sent to the display light control means **23**.

[0183] However, if it is possible to specify the position like the above, it is not always necessary to use the digitizer

function. For instance, specifying the position by using a pointing device like a mouse can obtain the same effect.

[0184] The display light control means **23** updates the image data stored in the image storage means **43** on the basis of the color data and the density data corresponding to the editing content and the position data of pixel corresponding to the position of contact point. Besides, the editing content in the embodiment is that of colors, density, expressing method, and etc. that were predetermined by the user to write in, (the expressing method is to image those written by a brush or a pen).

[0185] The processing after that is the same as the case where the image data is received from the sending-receiving means **104**.

[0186] According to the input processing as above, it is possible to update the image data stored in the image storage means **43** and the displaying on the display unit **121**.

[0187] When the character data is inputted, the user has to specify the position to input previously by using the writing material. The position specified in this way is sent to the display light control means **23** from the transmissive sheet **44** as mentioned above.

[0188] Next, when the user inputs a specific character by using a software keyboard or a keyboard connected separately, the display light control means **23** receives this inputted data as the character data. The received character data is inserted to the character data stored in the character storage means **42** according to the information of position specified as above.

[0189] After that, in the same way of the case that the image data is received from the sending-receiving means **104**, the displaying of the electronic paper **101** is updated. Besides, the processing to reflect the image data and the character data on each storage means is the control of storage means, and has nothing to do with the invention, therefore the detailed explanation is omitted here.

[0190] Accordingly, it is possible to edit directly the display content on the electronic paper. Additionally, since the character storage and the image storage are provided on the electronic paper, even when the electronic paper **101** is detached from the cover, it is possible to retain the character data and the image data as the independent electronic data.

[0191] Referring to **FIG. 25**, **FIG. 26(a)** and **FIG. 26(b)**, the deletion (editing) of the character data and the image data on the electronic paper **101** is explained.

[0192] **FIG. 26(a)** shows the electronic paper file **100** simply. The electronic paper file is provided with three electronic papers **54** to **56**. The electronic papers **54** to **56** offers the same function as the electronic paper **101** shown in **FIG. 25**. It is arranged that each electronic paper **54** to **56** is provided with respective character storage means **54-2**, **55-2**, and **56-2** and image storage means **54-3**, **55-3**, and **56-3**, and the character data and the image data corresponding to consecutive pages are displayed on respective display unit. **FIG. 26(b)** shows an image of inside of the character storage means **55-2**.

[0193] In case where the user deletes the character data, he first specifies an area **60** including the character data as described hereafter. When the area **60** is specified on the